

## **General Disclaimer**

### **One or more of the Following Statements may affect this Document**

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

07

"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and without liability  
for any use made thereon."

"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and without liability  
for any use made thereon."

II

APPLICATION OF LANDSAT SYSTEM FOR IMPROVING METHODOLOGY FOR  
INVENTORY AND CLASSIFICATION OF WETLANDS

E7.6-10028  
CR-145420

Dr. David S. Gilmer  
U.S. Fish and Wildlife Service  
Northern Prairie Wildlife Research Center  
Jamestown, North Dakota 58401

4 October 1975

Type II Progress Report for Periods 4 April - 3 July and 4 July -  
3 October 1975.

Prepared for:  
National Aeronautics and Space Administration  
Goddard Space Flight Center  
Greenbelt, Maryland 20771

(E76-10028) APPLICATION OF LANDSAT SYSTEM  
FOR IMPROVING METHODOLOGY FOR INVENTORY AND  
CLASSIFICATION OF WETLANDS Progress Report,  
4 Apr. - 3 Jul. 1975 (Northern Prairie  
Wildlife Research Center) 3 p HC \$3.50

N76-11526

Unclassified  
G3/43 00028

Publication authorized by the Director, U.S. Fish and Wildlife  
Service

23000

RECEIVED

OCT 14 1975  
SIS/902.6

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.		
4. Title and Subtitle  Application of LANDSAT system for improving methodology for inventory and classification of wetlands.		5. Report Date 4 October 1975		
		6. Performing Organization Code		
7. Author(s) David S. Gilmer (IN 300) and Edgar A. Work, Jr.		8. Performing Organization Report No.		
9. Performing Organization Name and Address  U.S. Fish and Wildlife Service Northern Prairie Wildlife Research Center Jamestown, North Dakota 58401  nts		10. Work Unit No.		
		11. Contract or Grant No. S-54049A		
		13. Type of Report and Period Covered  Type II Progress Rept. 4 April - 3 July 1975 and 4 July - October 1975		
12. Sponsoring Agency Name and Address  Mr. Harold Oseroff, Code 902 Goddard Space Flight Center Greenbelt, Maryland 20771		14. Sponsoring Agency Code		
15. Supplementary Notes				
16. Abstract  Aircraft missions in support of this investigation were flown on 15-16 May and 18-19 July 1975 by NASA's NP-3A. Appropriate ground truth data were collected during aircraft and satellite overflights. Certain aircraft and satellite products have been received and are being evaluated. Formalization of a contractual agreement between USFWS and ERIM has been delayed due to administrative procedures.				
17. Key Words		18. Distribution Statement		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Not applicable	21. No. of Pages 2	22. Price

Type II Progress Report  
LANDSAT-2

(Cover Sheet)

(Technical Report Standard Title Page)

Title: Application of LANDSAT system for improving methodology  
for inventory and classification of wetlands

LANDSAT Proposal No.: 23000

GSFC ID No. of P.I.: 300

A. Problems

Formalization of a contractual agreement between the FWS and ERIM has been delayed due to unanticipated administrative problems. We are hopeful the contract will be finalized within the next few weeks.

B. Accomplishments

Aircraft missions in support of this investigation were flown on 15-16 May and 18-19 July 1975 by NASA's NP-3A. Appropriate ground truth data were collected during aircraft and satellite overflights. Certain aircraft data products have been received and are being evaluated. Selected satellite imagery has been ordered and many of these items have already been received. Service from EROS Data Center has been good. We have been receiving products about 30 days after placing an order. Our May request for LANDSAT-1 imagery was granted by NASA and implemented by EROS Data Center in July.

C. Significant Results

None

D. Publications

None

E. Recommendations

We have had some delay in reviewing the screening photography because of the difficulty in obtaining a viewer capable of handling the 16 mm magazines. It would be helpful to place this type of data on 35 mm open reels in the future. Scanner oscilloscope rolls were printed backwards causing serious difficulties in orientation

and assessment of this data. Scanner preview data should be printed to facilitate orientation. Transparencies would provide the best format where a large amount of scanner data are involved.

**F. Funds Expended**

No funds other than those itemized below have been expended.

**G. Data Use**

	<u>Value of data allowed</u>	<u>Value of data ordered</u>	<u>Value of data received</u>
Imagery (#G23000)	\$6800.00	\$2906.00	\$2690.00
CCT (#GB30000)	\$3600.00	0.0	0.0
Airc. aft (#GW3000)	\$7920.00	0.0	0.0

**H. Aircraft Data**

Aircraft screening photography and oscillograph reproduction of scanner data have been received. We have begun the evaluation of these products.